

What is claimed is:

- sub. a1*
1. An apparatus for activating an inductance loop vehicle detector, comprising:
a magnet, and
a mount that attaches the magnet to a vehicle.
 2. The apparatus of claim 1, wherein the vehicle is selected from a group consisting of: a motorcycle, an automobile, and a bicycle
 3. The apparatus of claim 1, wherein the magnet is a permanent magnet.
 4. The apparatus of claim 3, wherein the magnet is selected from the group consisting of: a ceramic magnet, a neodymium-iron-boron magnet, a samarium-cobalt magnet, and a magnet formed of an alloy of aluminum, nickel, and cobalt.
 5. The apparatus of claim 3, wherein the magnet is a grade 5 ceramic magnet.
 6. The apparatus of claim 1, wherein the magnet has a total flux of at least 20,000 maxwells and a maximum energy product of at least 6.5 MGOe.
 7. The apparatus of claim 6, wherein the magnet further has a residual induction of at least 3000 gauss, and a coercive force of at least 2200 oersteds.
 8. The apparatus of claim 1, wherein the magnet is an electromagnet.

9. The apparatus of claim 1, wherein the magnet includes a protective coating.
10. The apparatus of claim 9, wherein the coating is a conducting material.
11. The apparatus of claim 9, wherein the coating is one or more of the group consisting of: tin, nickel, or chrome.
12. The apparatus of claim 9, wherein the coating is a non-conductive material.
13. The apparatus of claim 12, wherein the coating is formed from plastic or rubber.
14. The apparatus of claim 1, wherein the mount is selected from the group consisting of: an adhesive material, brackets, and a hook and loop fastener.
15. The apparatus of claim 1, wherein the mount includes a member having an adhesive coating on two opposing surfaces.
16. The apparatus of claim 1, wherein the mount includes a corrugated tie.
17. The apparatus of claim 1, wherein the mount is integrally formed with the vehicle.
18. A method of activating an inductance loop vehicle detector, comprising:

attaching a magnet to a vehicle, and
moving the vehicle with the magnet proximal to an inductance loop of the inductance
loop vehicle detector.

19. The method of claim 18, wherein the magnet is a permanent magnet.

20. The method of claim 19, wherein the magnet is selected from the group consisting
of: a ceramic magnet, a neodymium-iron-boron magnet, a samarium-cobalt magnet, and a
magnet formed of an alloy of aluminum, nickel, and cobalt.

21. The method of claim 19, wherein the magnet is a grade 5 ceramic magnet.

22. The method of claim 18, wherein the magnet has a total flux of at least 20,000
maxwells and a maximum energy product of at least 6.5 MGOe.

23. The method of claim 22, wherein the magnet further has a residual induction of at
least 3000 gauss, and a coercive force of at least 2200 oersteds.

24. The method of claim 18, wherein the magnet is an electromagnet.

25. The method of claim 18, wherein the magnet includes a protective coating.

26. The method of claim 25, wherein the coating is a conducting material.

27. The method of claim 25, wherein the coating is one or more of the group consisting of: tin, nickel, or chrome.

28. The method of claim 25, wherein the coating is a non-conductive material.

29. The method of claim 28, wherein the coating is formed from plastic or rubber.

30. The method of claim 18, wherein the magnet is attached using a mount.

31. The method of claim 30, wherein the mount is selected from the group consisting of: an adhesive material, brackets, and a hook and loop fastener.

32. The method of claim 30, wherein the mount includes a member having an adhesive coating on two opposing surfaces.

33. The method of claim 30, wherein the mount includes a corrugated tie.

34. The method of claim 30, wherein the mount is integrally formed with the vehicle.

~~35.~~ A method for manufacturing a vehicle, comprising:
manufacturing a vehicle; and

attaching a magnet to the vehicle for purposes of activating proximal inductance loop detectors.

36. The method of claim 35, wherein the magnet is a permanent magnet.

37. The method of claim 36, wherein the magnet is selected from the group consisting of: a ceramic magnet, a neodymium-iron-boron magnet, a samarium-cobalt magnet, and a magnet formed of an alloy of aluminum, nickel, and cobalt.

38. The method of claim 36, wherein the magnet is a grade 5 ceramic magnet.

39. The method of claim 35, wherein the magnet has a total flux of at least 20,000 maxwells and a maximum energy product of at least 6.5 MGOe.

40. The method of claim 39, wherein the magnet further has a residual induction of at least 3000 gauss, and a coercive force of at least 2200 oersteds.

41. The method of claim 35, wherein the magnet is an electromagnet.

42. The method of claim 35, wherein the magnet includes a protective coating.

43. The method of claim 42, wherein the coating is a conducting material.

44. The method of claim 43, wherein the coating is one or more of the group consisting of: tin, nickel, or chrome.

45. The method of claim 42, wherein the coating is a non-conductive material.

46. The method of claim 45, wherein the coating is formed from plastic or rubber.

47. The method of claim 35, wherein the magnet is attached using a mount.

48. The method of claim 47, wherein the mount is selected from the group consisting of: an adhesive material, brackets, and a hook and loop fastener.

49. The apparatus of claim 47, wherein the mount includes a member having an adhesive coating on two opposing surfaces.

50. The apparatus of claim 47, wherein the mount includes a corrugated tie.

51. The apparatus of claim 47, wherein the mount is integrally formed with the vehicle.

52. A method of retrofitting a vehicle, comprising:
attaching a magnet to a vehicle for purposes of activating inductance loop detectors proximal to the vehicle.

53. The method of claim 52, wherein the magnet is a permanent magnet.

54. The method of claim 53, wherein the magnet is selected from the group consisting of: a ceramic magnet, a neodymium-iron-boron magnet, a samarium-cobalt magnet, and a magnet formed of an alloy of aluminum, nickel, and cobalt.

55. The method of claim 54, wherein the magnet is a grade 5 ceramic magnet.

56. The method of claim 52, wherein the magnet has a total flux of at least 20,000 maxwells and a maximum energy product of at least 6.5 MGOe.

57. The method of claim 56, wherein the magnet further has a residual induction of at least 3000 gauss, and a coercive force of at least 2200 oersteds.

58. The method of claim 52, wherein the magnet is an electromagnet.

59. The method of claim 52, wherein the magnet includes a protective coating.

60. The method of claim 59, wherein the coating is a conducting material.

61. The method of claim 60, wherein the coating is one or more of the group consisting of: tin, nickel, or chrome.

67. The apparatus of claim 64, wherein the mount includes a corrugated tie.